

The points  $(0, 0)$  and  $(3, 2)$  are two vertices of a polygon with integer coordinates.

8. What could the other two vertices be if the polygon is a square?
9. Suppose the polygon is a nonrectangular parallelogram. What could the other two vertices be?
10. What could the other vertex be if the polygon is a right triangle?

The points  $(3, 3)$  and  $(2, 6)$  are two vertices of a right triangle. Use this information for Exercises 11–13.

11. **Multiple Choice** Which point could be the third vertex of the right triangle?  
 A.  $(3, 2)$       B.  $(-1, 5)$       C.  $(7, 4)$       D.  $(0, 3)$
12. Give the coordinates of at least two other points that could be the third vertex.
13. How many right triangles with vertices  $(3, 3)$  and  $(2, 6)$  can you draw? Explain.
14. Can the following points be connected to form a parallelogram? Explain.  
 $(1, 1)$        $(2, -2)$        $(4, 2)$        $(3, 5)$

Find the area of each triangle. Copy the triangles onto dot paper if you need to.

